This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently Amended) Catalyst that comprises: A catalyst comprising:
 - At least one hydro-dehydrogenating element that is selected from the group that is formed by consisting of elements of group VIB and of group VIII of the periodic table,
 - a non-zeolitic silica-alumina-based substrate that contains containing an amount that is of more than 10% by weight and less than or equal to 80% by weight of silica (SiO₂),
 - a total pore volume, measured by mercury porosimetry, encompassed between 20 and 140 Å,
 - a total pore volume, measured by mercury porosimetry, encompassed between 0.1 ml/g and 0.6 ml/g,
 - a total pore volume, measured by nitrogen porosimetry, encompassed between 0.1 ml/g and 0.6 ml/g,
 - a BET specific surface area encompassed between 150 and 500 m²/g,
 - a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 140 Å, of less than 0.1 ml/g,
 - a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 160 Å, of less than 0.1 ml/g,
 - a pore volume, measured by mercury porosimetry, encompassed in the pores with

- diameters of more than 200 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 500 Å, of less than 0.1 ml/g,
- a pore distribution such that the ratio between volume V2, measured by mercury porosimetry, encompassed between D_{mean} 30 Å and D_{mean} + 30 Å to the total mercury volume is more than 0.6 volume V3, measured by mercury porosimetry, encompassed in the pores with diameters of more than D_{mean} + 30 Å is less than 0.1 ml/g volume V6, measured by mercury porosimetry, encompassed in the pores with diameters of more than D_{mean} + 15 Å is less than 0.2 ml/g,
- an X ray diffraction diagram that contains at least the main lines that are characteristic of at least one of the transition aluminas encompassed in the group that consists of the alpha, rho, chi, eta, gamma, kappa, theta and delta aluminas.
- 2. (Currently Amended) Catalyst A catalyst according to claim 1, in which the having a proportion of octahedral Al_{VI} determined by the analysis of the NMR MAS spectra of the solid of ²⁷Al is of more than 50%.
- 3. (Currently Amended) Catalyst A catalyst according to claim 1 that is based on comprising nickel and tungsten.

- 4. (Currently Amended) Catalyst A catalyst according to claim 1 that is based on comprising platinum and palladium.
- 5. (Currently Amended) Catalyst A catalyst according to claim 1 that comprises comprising at least one dopant that is selected from the group that is formed by consisting of phosphorus, boron, and silicon and which is deposited on the catalyst.
- 6. (Currently Amended) Catalyst A catalyst according to claim 1 that comprises comprising at least one element of group VIIB.
- 7. (Currently Amended) Catalyst A catalyst according to claim 1 that comprises comprising at least one element of group VB.
- 8. (Currently Amended) Catalyst A catalyst according to claim 1 such that the having a packing density is of more than 0.85 g/cm³.
- 9. (Currently Amended) Non-zeolitic A non-zeolitic silica-alumina-based substrate that contains an amount that is containing more than 10% by weight and less than or equal to 80% by weight of silica (SiO₂), characterized by:
 - a mean pore diameter, measured by mercury porosimetry, encompassed between 20 and 140 Å,
 - a total pore volume, measured by mercury porosimetry, encompassed between 0.1

- ml/g and 0.6 ml/g,
- a total pore volume, measured by nitrogen porosimetry, encompassed between 0.1
 ml/g and 0.6 ml/g,
- a BET specific surface area encompassed between 150 and 500 m²/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 140 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 160 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 200 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 500 Å, of less than 0.01 ml/g,
- a pore distribution such that the ratio between volume V2, measured by mercury porosimetry, encompassed between D_{mean} 30 Å and D_{mean} + 30 Å to the total mercury volume is more than 0.6 volume V3, measured by mercury porosimetry, encompassed in the pores with diameters of more than D_{mean} + 30 Å is less than 0.1 ml/g volume V6, measured by mercury porosimetry, encompassed in the pores with diameters of more than D_{mean} + 15 Å is less than 0.2 ml/g,
- an X ray diffraction diagram that contains at least the main lines that are characteristic of at least one of the transition aluminas encompassed in the group that consists of the alpha, rho, chi, eta, gamma, kappa, theta and delta aluminas.

- 10. (Currently Amended) Substrate A substrate according to claim 9, in which the having a cationic impurity content is of less than 0.1% by weight.
- 11. (Currently Amended) Substrate A substrate according to claim 9, in which the having an anionic impurity content is of less than 0.5% by weight.
- 12. (Currently Amended) Substrate A substrate according to claim 9, such that the exhibiting an X ray diffraction diagram contains containing at least the main lines that are characteristic of at least one of the transition aluminas encompassed in the group that consists of eta, theta, delta and gamma aluminas.
- 13. (Currently Amended) Substrate A substrate according to claim 9, such that the exhibiting an X ray diffraction diagram contains containing at least the main lines that are characteristic of at least one of the transition aluminas contained in the group that consists of eta- and gamma-aluminas.
- 14. (Currently Amended) Substrate A substrate according to claim 9, such that the having a mean pore diameter is encompassed between 40 and 120 Å.
- 15. (Currently Amended) Substrate A substrate according to claim 9 such that it comprises comprising at least two silico-aluminum zones that have having Si/Al ratios that are less than or greater than the overall Si/Al ratio, as that is determined by X fluorescence.

- 16. (Currently Amended) Substrate A substrate according to claim 9 such that it comprises comprising a single silico-aluminum zone that has having an Si/Al ratio that is equal to the overall Si/Al ratio, as that is determined by X fluorescence, and is less than 2.3.
- 17. (Currently Amended) Substrate A substrate according to claim 9, such that the having a packing density, after calcination, is of more than 0.65 g/cm³.
- 18. (Currently Amended) Substrate A substrate according to claim 9 whose having an acidity that is measured by IR tracking of the thermodesorption of the pyridine is such that the B/L ratio is encompassed between 0.05 and 1.
- 19. (Currently Amended) Process A process for hydrocracking and/or hydroconversion of hydrocarbon-containing feedstocks that use comprising providing the catalyst according to claim 1 or the catalyst that contains the non-zeolitic silica-alumina-based substrate that contains an amount that is more than 10% by weight and less than or equal to 80% by weight of silica (SiO₂), characterized by:
 - a mean pore diameter, measured by mercury porosimetry, encompassed between 20
 and 140 Å,
 - a total pore volume, measured by mercury porosimetry, encompassed between 0.1
 ml/g and 0.6 ml/g,
 - a total pore volume, measured by nitrogen porosimetry, encompassed between 0.1 ml/g and 0.6 ml/g,

- a BET specific surface area encompassed between 150 and 500 m²/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 140 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 160 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 200 Å, of less than 0.1 ml/g,
- a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 500 Å, of less than 0.01 ml/g,
- a pore distribution such that the ratio between volume V2, measured by mercury porosimetry, encompassed between D_{mean} 30 Å and D_{mean} + 30 Å to the total mercury volume is more than 0.6 volume V3, measured by mercury porosimetry encompassed in the pores with diameters of more than D_{mean} + 30 Å is less than 0 ml/g volume V6, measured by mercury porosimetry, encompassed in the pores with diameters of more than D_{mean} + 15 Å is less than 0.2 ml/g,
- an X diffraction diagram that contains at least the main lines that are characteristic of at least one of the transition aluminas encompassed in the group that consists of the alpha, rho, chi, eta, gamma, kappa, theta and delta aluminas.
- 20. (Currently Amended) Process A process for hydrocracking and/or hydroconversion according to claim 19 that is carried out according to the so-called a single-stage process.

- 21. (Currently Amended) Process A process for hydrocracking and/or hydroconversion according to claim 20 that comprises:
 - A first hydrorefining reaction zone in which the feedstock is brought into contact with at least one hydrorefining catalyst that exhibits in the standard activity test a methylcyclohexane conversion level that is less than 10% by mass,
 - A second hydrocracking reaction zone in which at least a portion of the effluent that is obtained from the hydrorefining stage is brought into contact with at least one non-zeolitic hydrocracking catalyst that exhibits in the standard activity test a methylcyclohexane conversion level that is more than 10% by mass,
 - and in which the proportion of the catalytic volume of the hydrorefining catalyst represents 20 to 45% of the total catalytic volume.
- 22. (Currently Amended) Process A process for hydrocracking and/or hydroconversion according to claim 19 that comprises at least a first hydrorefining reaction zone and at least a second reaction zone that comprises a hydrocracking of at least a portion of the effluent of the first zone and that comprises an incomplete separation of ammonia from the effluent that exits from the first zone.
- 23. (Currently Amended) Process A process for hydrocracking and/or hydroconversion according to claim 19 in the so-called a two-stage process.

- 24. (Currently Amended) Process A process according to claim 19 that operates, in the presence of hydrogen, at a temperature of more than 200°C, under a pressure of more than 1 MPa, whereby the volumetric flow rate is encompassed between 0.1 and 20 h⁻¹, and the amount of hydrogen that is introduced is such that the volumetric ratio of liter of hydrogen/liter of hydrocarbon is encompassed between 80 and 5000 l/l.
- 25. (Currently Amended) Process A process for hydrocracking and/or hydroconversion according to claim 19 that operates at a pressure encompassed between 20 and 60 bar and that results in conversions of less than 40%.
- 26. (Currently Amended) Process A process according to claim 19 that operates in a fixed bed.
- 27. (Currently Amended) Process A process according to claim 19 that operates in a boiling bed.
- 28. (Currently Amended) Process A process according to claim 23, in which the catalyst is based on comprises at least one of the noble elements of group VIII.
- 29. (Currently Amended) Process A process according to claim 28, in which the catalyst is based on comprises platinum and/or palladium.

- 30. (Currently Amended) Process A process for hydrotreatment of hydrocarbon-containing feedstocks that use comprising providing the catalyst according to claim 1 or the catalyst that contains the non-zeolitic silica-alumina- based substrate that contains an amount that is more than 10% by weight and less than or equal to 80% by weight of silica (SiO₂), characterized by:
 - a mean pore diameter, measured by mercury porosimetry, encompassed between 20
 and 140 Å,
 - a total pore volume, measured by mercury porosimetry, encompassed between 0.1
 ml/g and 0.6 ml/g,
 - a total pore volume, measured by nitrogen porosimetry, encompassed between 0.1 ml/g and 0.6 ml/g,
 - a BET specific surface area encompassed between 150 and 500 m²/g,
 - a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 140 Å, of less than 0.1 ml/g,
 - a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 160 Å, of less than 0.1 ml/g,
 - a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 200 Å, of less than 0.1 ml/g,
 - a pore volume, measured by mercury porosimetry, encompassed in the pores with diameters of more than 500 Å, of less than 0.01 ml/g,
 - a pore distribution such that the ratio between volume V2, measured by mercury porosimetry, encompassed between D_{mean} 30 Å and D_{mean} + 30 Å to the total mercury volume is more than 0.6 volume V3, measured by mercury porosimetry

encompassed in the pores with diameters of more than $D_{mean} + 30$ Å is less than 0 ml/g - volume V6, measured by mercury porosimetry, encompassed in the pores with diameters of more than $D_{mean} + 15$ Å is less than 0.2 ml/g,

- an X diffraction diagram that contains at least the main lines that are characteristic of at least one of the transition aluminas encompassed in the group that consists of the alpha, rho, chi, eta, gamma, kappa, theta and delta aluminas.
- 31. (Currently Amended) Process A process according to claim 30 that is placed upstream from a hydrocracking process.
- 32. (Currently Amended) <u>Process A process</u> according to claim 31, where the hydrocracking catalyst is based on zeolite.
- 33. (Currently Amended) <u>Process A process</u> according to claim 31, where the hydrocracking catalyst is based on silica-alumina.
- 34. (Currently Amended) <u>Process A process</u> according to claim 19, in which the hydrocracking catalyst is based on nickel and tungsten.
- 35. (Currently Amended) Process A process according to claim 19, in which the hydrocarbon-containing feedstocks are selected from the group that is formed by consisting of LCO (light cycle oil), atmospheric distillates, vacuum distillates, whereby the feedstocks are

obtained from units for extracting aromatic compounds from lubricating oil bases or obtained from solvent dewaxing of lubricating oil bases, whereby the distillates are obtained by processes for desulfurization or hydroconversion in a fixed bed or in a boiling bed of RAT (atmospheric residues) and/or RSV (vacuum residues) and/or desasphalted oils, the deasphalted oils, by themselves or in a mixture.